

Appl. No. 09/775,715
Reply dated February 26, 2005
Reply to Office Action mailed November 30, 2004

AMENDMENTS TO THE CLAIMS

1. Cancelled.
2. Cancelled.
3. Cancelled.
4. Cancelled.
5. Cancelled.
6. Cancelled.

7. (Previously Presented) A system for user behavior based searching of a document based on a query having one or more query terms, comprising:

means for determining a feature vector associated with a document, the feature vector comprising weights for one or more terms that appear in the document;

means for capturing user actions in response to a list of documents produced in response to a query wherein the user actions include selecting a document from the list of documents;

means for modifying the feature vector for the document based on a sample of user actions captured during a query of the document so that the document is more highly ranked in response to the user actions, wherein the modifying means further comprises means for adjusting a frequency value of the terms in the feature vector that match terms in a query that produced the list of documents so that the ranking of the document is altered in response to the adjustment of the frequency values;

means for storing the modified feature vector of the document wherein the feature vector for the document is modified and stored following each search session and sampled user action so that the modified feature vector of the document is utilized during and affects the results of every subsequent search session by every user; and

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means for returning the same document to another user with the same query at a higher ranking due to the modified feature vector of the document.

8. Cancelled.

9. Cancelled.

10. (Currently Amended) A computer implemented method for user behavior based searching of a document based on a query having one or more query terms, comprising:

determining a feature vector associated with a document, the feature vector comprising frequency values for one or more terms that appear in the document;

capturing user actions in response to a list of documents produced in response to a query wherein the user actions include selecting a document from the list of documents;

modifying the feature vector for the document based on a sample of user actions captured during a query of the document so that the document is more highly ranked in response to the user actions, wherein the modifying further comprises adjusting a frequency value of the terms in the feature vector that match terms in a query that produced the list of documents so that the ranking of the document is altered in response to the adjustment of the frequency values;

storing the modified feature vector of the document wherein the feature vector of the document is modified and stored following each search session and sampled user action so that the modified feature vector of the document is utilized during and affects the results of every subsequent search session by every user; and

returning the same document to another user with the same query at an altered ranking due to the modified feature vector of the document.

11. Cancelled.

12. Cancelled.

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13. (Previously Presented) A computer implemented method for user behavior based ranking of a document, the method comprising:

ranking a document based on a feature vector of the document, the feature vector comprising frequency values for one or more terms that appear in the document;

sampling user search behavior;

updating the feature vector of the document based on the sampled user search behavior so that the rank of the document is changed based on the user sampled user search behavior, wherein the updating further comprises adjusting a frequency value of the terms in the feature vector that match terms in a query that produced the list of documents so that the ranking of the document is altered in response to the adjustment of the frequency values;

storing the modified feature vector of the document wherein the feature vector of the document is modified and stored following each search session and sampled user action so that the modified feature vector of the document is utilized during and affects the results of every subsequent search session by every user; and

returning the same document to another user with a similar query at an altered ranking due to the modified feature vector of the document.

14. (Previously presented) The method of Claim 13, wherein the sampling further comprises generating a sample of the user behavior wherein the sample of the user behavior further comprises a query feature vector of the terms in a particular query and the feature vector of the one or more documents returned based on the query and viewed by the user.

15. (Previously presented) The method of Claim 14, wherein the sample generating further comprises generating a sample during a sampling frequency.

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16. (Currently Amended) The method of Claim 13, wherein the updating further comprises combining the feature vector of the document with a feature vector of the query, the feature vector of the query comprising frequency values for one or more terms that appear in the query.

17. (Currently Amended) The method of Claim 16, wherein the updating further comprising scaling the ~~query~~ feature vector of the query based on the viewing time of the document by the user during the sampled user behavior to generate a scaled query feature vector.

18. Cancelled.

19. Cancelled.

20. (Previously Presented) A computer implemented system for user behavior based ranking of a document, the system comprising one or more computer instructions, the system comprising:

instructions for ranking a document based on a feature vector of the document, the feature vector comprising frequency values for one or more terms that appear in the document;

instructions for sampling user search behavior;

instructions for updating the feature vector of the document based on the sampled user search behavior so that the rank of the document is changed based on the user sampled user search behavior, wherein the updating further comprises adjusting a frequency value of the terms in the feature vector that match terms in a query that produced the list of documents so that the ranking of the document is altered in response to the adjustment of the frequency values;

instructions for storing the modified feature vector of the document wherein the feature vector of the document is modified and stored following each search session and sampled user

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action so that the modified feature vector of the document is utilized during and affects the results of every subsequent search session by every user; and

instructions for returning the same document to another user with a similar query at an altered ranking due to the modified feature vector of the document.

21. (Previously presented) The system of Claim 20, wherein the sampling further comprises instructions for generating a sample of the user behavior wherein the sample of the user behavior further comprises a query feature vector of the terms in a particular query and the feature vector of the one or more documents returned based on the query and viewed by the user.

22. (Previously presented) The system of Claim 21, wherein the sample generating further comprises instructions for generating a sample during a sampling frequency.

23. (Currently Amended) The system of Claim 20, wherein the updating further comprises instructions for combining the feature vector of the document with a feature vector of the query, the feature vector of the query comprising frequency values for one or more terms that appear in the query.

24. (Currently Amended) The system of Claim 23, wherein the updating further comprising instructions for scaling the query feature vector of the query based on the viewing time of the document by the user during the sampled user behavior to generate a scaled query feature vector.

25. Cancelled.

26. Cancelled.

27. Cancelled.

28. Cancelled.

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29(Previously presented). The system of claim 7, wherein the modifying means further comprises means for sampling the actions of a plurality of users in order to modify the feature vector for the document.

30. (Previously presented). The method of claim 10, wherein the modifying the feature vector further comprises sampling the actions of a plurality of users in order to modify the feature vector for the document.

31 (Previously presented). The method of claim 13, wherein sampling user search behavior further comprises sampling the user search behavior of a plurality of users.

32 (Previously presented). The system of claim 20, wherein the instructions for sampling user search behavior further comprises instructions for sampling the user search behavior of a plurality of users.

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